Test Report
Aggregate Impact Value

Project Name	Providing UGD Work system in ward no.02 of Yelahanka Sub Division.
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Mix Type	Wet Mix Macadam
Contractor	Sri.R.Ranganath
Material	Coarse Aggregate
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Sample No	1
Sample Collected Date	Jun/6/2019, Jun/11/2019
Tested Date	13-Jul-2018

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1308	1307
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	348	347
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	83	82
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	265	265
6	Aggregate Impact Value (w4 / w3)x100	%	23.85	23.63
7	Specified Limit	%	30	

Results: Average Aggregate Impact Value: **23.74 %**

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Note:

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ii. The results relate only to the items tested.

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Test Report
Aggregate Particle Shape

Project Name	Providing UGD Work system in ward no.02 of Yelahanka Sub Division.
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Mix Type	Wet Mix Macadam
Contractor	Sri.R.Ranganath
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse Aggregates
Sample No	1
Sample Collected Date	Jun/6/2019, Jun/11/2019
Tested Date	13-Jul-2018

I.S. Sieves Size		Weight of Retained Sample on Each Sieve (minimum 200 Pieces) (gm)	Flakiness Index		Elongation Index	
Passing through IS Sieves (mm)	Retained on IS Sieves (mm)		Thickness Gauge	Weight of Aggregates in each fraction passing on thickness gauges (gm)	Length Gauge	Weight of Aggregates in Fraction retained on length gauges (gm)
63	50	0	33.9	0	-	0
50	40	0	27	0	81	0
40	25	25	19.5	0	58.5	0
31.5	25	35	16.95	0	-	0
25	20	1559	13.5	239	40.5	257
20	16	1448	10.8	127	32.4	154
16	12.5	953	8.55	148	25.6	155
12.5	10	469	6.75	71	20.2	77
10	6.3	231	4.89	53	14.7	60
	SW	4720	SWf	638	SWe	703

Flakiness Index 13.52 %

Elongation Index 14.89 %

Combined Flakiness and Elongation Indices : 28.41 %

Comments: Maximum allowable Combined Flakiness and Elongation Indices for WMM is 35%

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Test Report
Aggregate Gradation

Project Name	Providing UGD Work system in ward no.02 of Yelahanka Sub Division.
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Mix Type	Wet Mix Macadam
Contractor	Sri.R.Ranganath
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Wet Mix Plant
Material	Coarse Aggregates
Sample No	1
Sample Collected Date	Jun/6/2019, Jun/11/2019
Tested Date	13-Jul-2018

Weight of Sample: 4000 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	53	0	0	0	100	100	Gradation satisfies the MORT&H Specification for Wet Mix macadam
2	45	105	2.63	2.63	97.37	95-100	
3	22.4	1102	27.55	30.18	69.82	60-80	
4	11.2	803	20.08	50.26	49.74	40-60	
5	4.75	710	17.75	68.01	31.99	25-40	
6	2.36	405	10.13	78.14	21.86	15-30	
7	0.06	302	7.55	85.69	14.31	(8-22)	
8	0.075	441	11.03	96.72	3.28	0-5	

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Test Report
Liquid and Plastic Limit by Cone Apparatus

Project Name	Providing UGD Work system in ward no.02 of Yelahanka Sub Division.
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Mix Type	Wet Mix Macadam
Contractor	Sri.R.Ranganath
Test Method	Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Wet Mix Plant
Material	Coarse Aggregates
Sample No	1
Sample Collected Date	Jun/6/2019, Jun/11/2019
Tested Date	13-Jul-2018

Sl No	Description	Unit	Liquid Limit	Plastic Limit
	Penetration	mm	**Non Plastic**	**Non Plastic**
1	Container No	no		
2	Weight of container,(A)	gm		
3	Weight of container + wet soil, (B)	gm		
4	Weight of container + dry soil, (C)	gm		
5	Weight of water, D=(B - C)	gm		
6	Weight of dry soil, E=(C - A)	gm		
7	Water Content, D/E x 100 (%)	gm		

Comments: <6 so Non Plastic

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Test Report
Field Density Test by Sand Replacement Method

Project Name	Providing UGD Work system in ward no 02 of Yelahanka Sub Division.
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Mix Type	Wet Mix Macadam
Contractor	Sri R.Ranganath
Test Method	IS 2720 (Part - 16) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V
Location	bay
Material	Wet Mix Macadam
Sample No	1
Sample Collected Date	Jun/6/2019, Jun/11/2019
Tested Date	17-Jul-2018

Test Hole No	**1**
MDD	2.24
OMC in %	3.2
Bulk Density Ys	1.392
Weight of Sand In cone W1 (gm)	1195
Weight Of Wet soil From Hole (W2)	4320
Wt Of Sand +Cylinder Before Pouring (W3)gm	17000
Wt Of Sand +Cylinder After Pouring (W4) gm	13175
Wt Of Sand In Hole: W5 = W3 - W4- W1 (gm)	2630
Volume of Hole V= W5/ Ys	1889.37
Bulk Density Yb= W2/V (gm/cc)	2.29
Moisture Meter Reading (%)	1.59
Moisture Content w (From Graph In %)	3.29
Dry Density Yd = Yb/(1+W/100)	2.21
Field Compaction(%)	98.82

Note:

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Test Report
Glazed stone ware Pipe

Project Name	Providing UGD Work system in ward no.02 of Yelahanka Sub Division.
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Contractor	Sri.R.Ranganath
Location	Bay
Material	Glazed Stone ware Pipe
Sample No	1
Sample Collected Date	Apr/10/2019, Apr/24/2019
Tested Date	24-Apr-2019

ALKALINE TEST

SL.NO	Area of specimen in cm2	Chemical used	REMARKS
1	90	Magnesium sulphate(5 cylcles)	No evedence of pitting ,Softening ,spalling or cracking
2	85		
3	95		

Note:

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Test Report
Glazed stone ware Pipe

Project Name	Providing UGD Work system in ward no.02 of Yelahanka Sub Division.
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Contractor	Sri.R.Ranganath
Location	Bay
Material	Glazed Stone ware Pipe
Sample No	1
Sample Collected Date	Apr/10/2019, Apr/24/2019
Tested Date	24-Apr-2019

ALKALINE TEST

SL.NO	Reagents	Mass of Dry Specimen	Mass Of residue	Loss in percentage mass	Limits as per IS 651-2007
1	Sulphuric Acid(4.9%)	70	0.5	0.71	Not Exceeding 2.5%
2		75	0.6	0.80	
3		80	0.6	0.75	

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Test Report
Glazed stone ware Pipe

Project Name	Providing UGD Work system in ward no.02 of Yelahanka Sub Division.
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Contractor	Sri.R.Ranganath
Location	Bay
Material	Glazed Stone ware Pipe
Sample No	1
Sample Collected Date	Apr/10/2019, Apr/24/2019
Tested Date	24-Apr-2019

SL.NO	Dia Of pipe	CHARACTERISTIC COMPRESSIVE STRENGTH, KN/m	AVG CHARACTERISTIC COMPRESSIVE STRENGTH, fck in KN/m	Limits as per IS 651-2007
1	230	18	18.33	Not less than 16KN/m
2	230	19		
3	230	18		

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Test Report
Glazed stone ware Pipe

Project Name	Providing UGD Work system in ward no.02 of Yelahanka Sub Division.
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Contractor	Sri.R.Ranganath
Location	Bay
Material	Glazed Stone ware Pipe
Sample No	4
Sample Collected Date	Apr/10/2019, Apr/24/2019
Tested Date	24-Apr-2019

SL.NO	Description	Result	Limits as per IS 651-2007
1	Hydraullic test	1.58kg/cm2 for 5sec	not less than 1.5kg/cm2
2	Water Absorbtion test	3.81%	not more than 6%

Note:

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Test Report
Brick

Project Name	Providing UGD Work system in ward no.02 of Yelahanka Sub Division.
Client	The Executive Engineer, Yelahanka Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Contractor	Sri.R.Ranganath
Location	Bay
Material	Brick
Sample No	1
Sample Collected Date	May/9/2019, May/21/2019
Tested Date	23-May-2019

SL.NO	Failure Load in KN	CHARACTERISTIC COMPRESSIVE STRENGTH, fck , in, N/Sq.mm	AVG CHARACTERISTIC COMPRESSIVE STRENGTH, fck in N/Sq.mm	REMARKS
1	471	5.90	5.90	
2	468	5.85		
3	475	5.95		

Results: Compressive strength of Brick is 5.90 N/mm2

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